PUBLIC ADDRESS SYSTEM

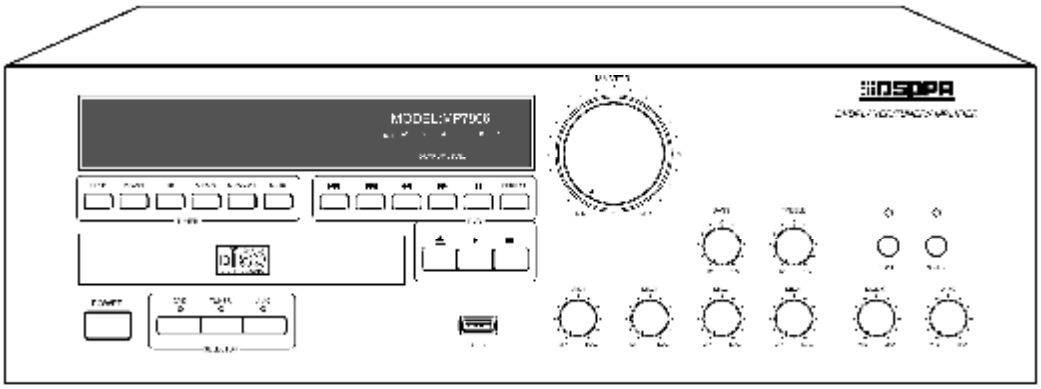
DVDPLAYER/TUNER/AMPLIFIER

MP7806

MP7812

MP7825

MP7835



Operation Manual

Welcome to enter my PA system. Please read the manual carefully before use to facilitate your better application of the equipment.

DSPPA Acoustic Technology Co., Ltd.
http：//www.DSPPA.com

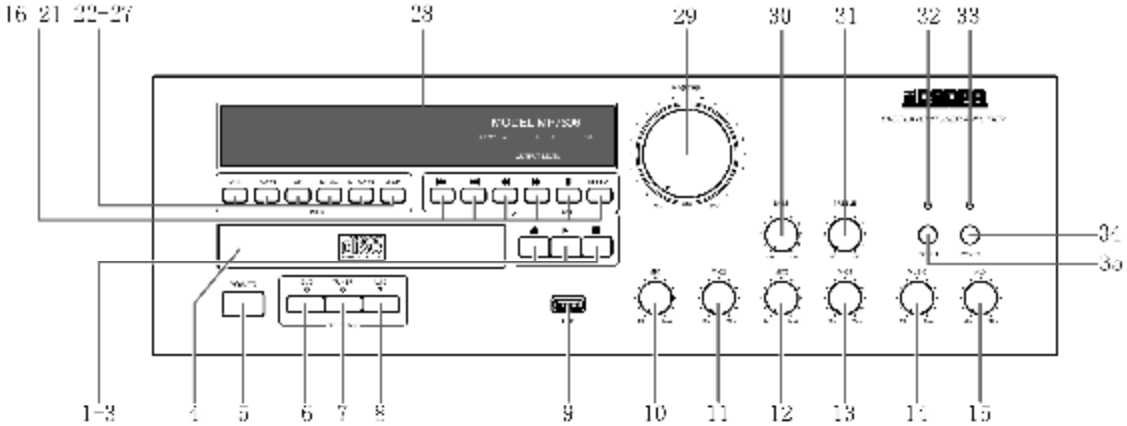
PRECAUTIONS

- Do NOT plug the equipment to the grid before connecting the system lines securely.
- Be sure to connect the equipment to the voltage in accordance with the one required by the equipment; otherwise, the equipment may be burnt.
- Since dangerous voltage exists in the equipment, do NOT open the housing to avoid electric shock.
- When the power switch of the equipment is in "Off" state, the equipment isn't disconnected completely from the grid. For safety, please unplug the power cord when the equipment is not used.
- Do NOT place the equipment in places that are very hot or cold.
- Please ensure the equipment operates in well-ventilated conditions to avoid overheating the equipment.
- Please switch off the master power switch when the equipment is not used for long time or when it is cloudy and moist.
- Do unplug the power cord to ensure the equipment is disconnected from the grid before removing or reinstalling any part of the equipment and disconnecting or rewiring any electric plug or other wiring of the equipment.
- In case of a failure, the unauthorized non-professional shall not disassemble the housing to maintain, so as not to lead to an accident or increase the damage degree of the equipment.
- Do NOT locate any corrosive substance near or on the equipment.

FEATURES

- **All-in-one public address device combining CD/DVD/VCD/MP3/MP4 player, tuner, pre-amplifier and power amplifier together.**
- **Fluorescence digital display, totally-digitalized tactile control.**
- **Equipped with USB interface, supports common USB flash disk, mobile hard disk, etc.**
- **Phantom power supply for 1-channel Video output, 1-channel AUX input, 4-channel microphone XLR input, and 4-channel microphone.**
- **Built-in chime generator, chime short-circuit toggles output instantly.**
- **Chime signal overrides 4-channel microphone signal, CD/DVD/VCD/MP3 player signal, tuner signal and AUX signal.**
- **High and low tone control, and volume control available.**
- **100V and 70V fixed-voltage output and 4Ω-16Ω fixed-resistance (balanced, not grounded) output.**
- **100V fixed-voltage output for 2 zones.**

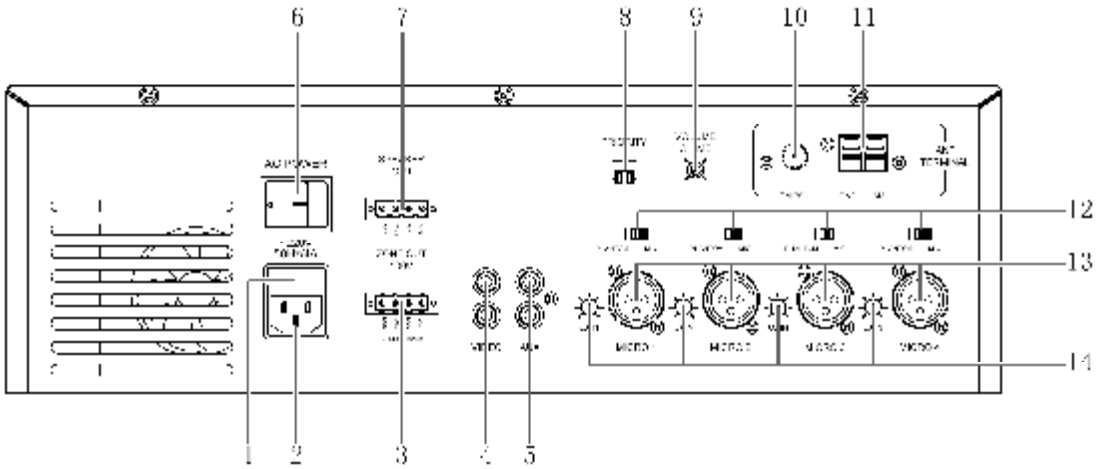
FRONT PANEL



1 DVD-Door open/close
2 DVD-Play
3 DVD-Stop
4 DVD-Door
5 Power switch
6 Select DVD mode
7 Select radio mode
8 Select AUX channel mode
9 USB interface
10 Adjust MIC1 volume
11 Adjust MIC2 volume
12 Adjust MIC3 volume
13 Adjust MIC4 volume
14 Adjust DVD/tuner volume
15 Adjust AUX volume
16 DVD-Next
17 DVD-Previous
18 DVD-FR
19 DVD-FF
20 DVD-Pause
21 Select DVD-repeat mode
22 Select radio-band
23 Radio-search from HF to LF
24 Radio-search from LF to HF
25 Radio-memory
26 Radio-select storage No. 20-1
27 Select radio storage No. 1-20
28 Fluorescent screen
29 Master volume control knob
30 Adjust bass tone
31 Adjust treble tone
32 Zone 1 On/Off indicator
33 Zone 2 On/Off indicator
34 Zone 2 On/Off key
35 Zone 1 On/Off key

Note : When all 5 LED level meters remain lit, sound is distorted. In such case, adjusting each volume control button till LED 4 and LED 5 flash.

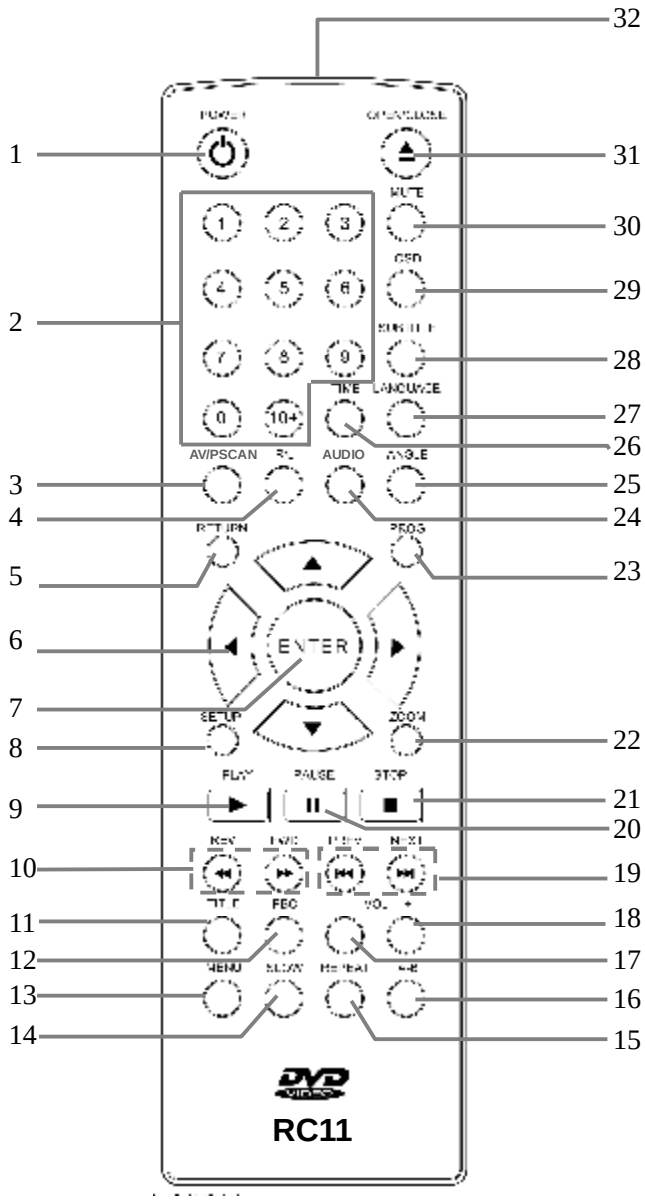
REAR PANEL



1 Fuse AC220V
2 Socket AC220V
3 Zone output wiring terminal
4 Video output terminal
5 AUX input terminal
6 Master power switch
7 Output terminal of amplifier
8 Microphone override/chime output short-circuit toggle terminal
9 Chime volume knob
10 FM antenna interface
11 AM antenna interface
12 Phantom power supply switch
13 4 microphones interfaces
14 Adjust microphone gain

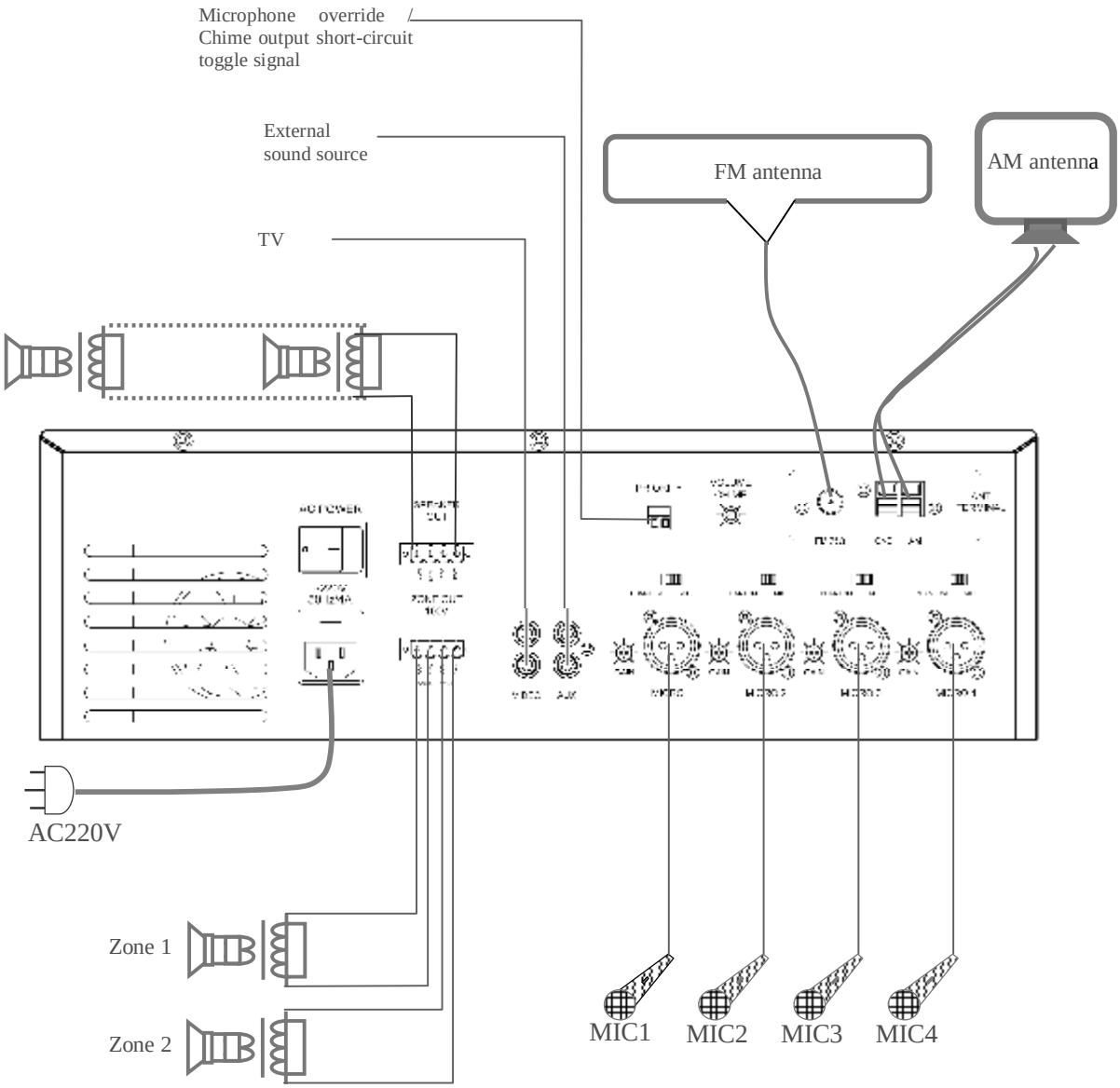
Description of Remote Controller Functions

1) POWER: Switch On/Off the power supply
2) [0~9], [+10]: Number keys, [+10] for inputting a number greater than 10
3) AV/PSCAN: Video output terminal selection
4) R/L: Switch sound channel
5) RETURN: Return to chapter or contents
6) ◄►▼▲ : Direction keys
7) ENTER: Confirm the operation selected
8) SETUP: System function settings
9) PLAY: Play key
10) [REV] & [FWD]: FR and FF key
11) TITLE: Select the title/menu of a DVD
12) PBC: Open or close the menu of a VCD
13) MENU: Selection key for DVD menu
14) SLOW: Play at lower speed
15) REPEAT: Select Repeat mode
16) A-B: Repeat fragment
17) VOL-: Volume down
18) VOL+: Volume up
19) [PREV] & [NEXT]: PREV for selecting the previous chapter or song, NEXT for selecting the next chapter or song
20) PAUSE: Pause during play
21) STOP: Stop playing
22) ZOOM: Zoom in the image
23) PROG: Prior program for playing songs according to the preset order
24) AUDIO: Select sound effect
25) ANGLE: Select a different viewing angle
26) TIME: Time-controlled playing, start to play from the selected start time
27) LANGUAGE: Select a language
28) SUBTITLE: Select subtitle
29) OSD: On screen display, display the play state
30) MUTE: Eliminate or restore the sound
31) OPEN/CLOSE: Eject or inject the room
32) REMOTE TRANSMITTER



SYSTEM WIRING

1. Wiring Diagram of Peripheral Devices

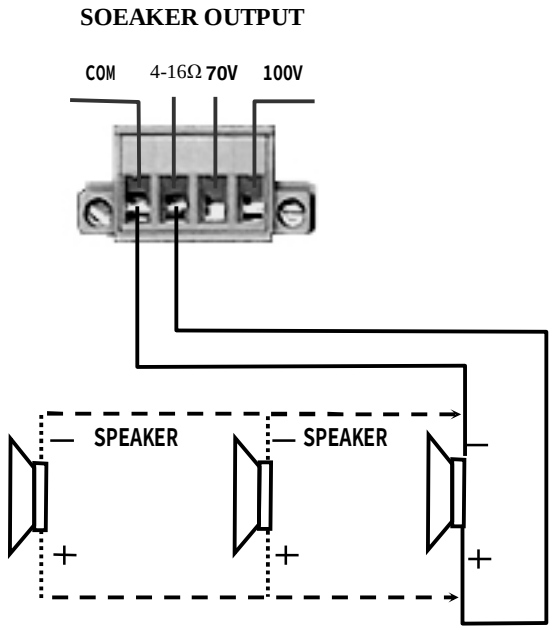


Note:

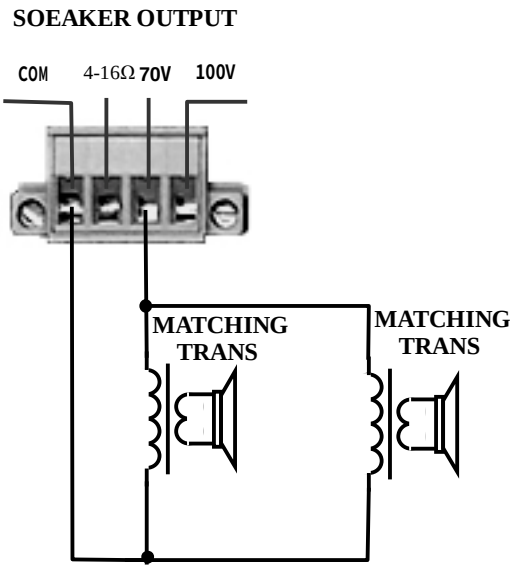
- **Never connect two hot terminals (labeled 4Ω, 70V, 100V) together.**
- **Only choose one pair of output terminals for speaker connection. The connection ways shall be COM-4Ω / COM-70V / COM-100V.**

2. Wiring Diagram of Amplifier Output

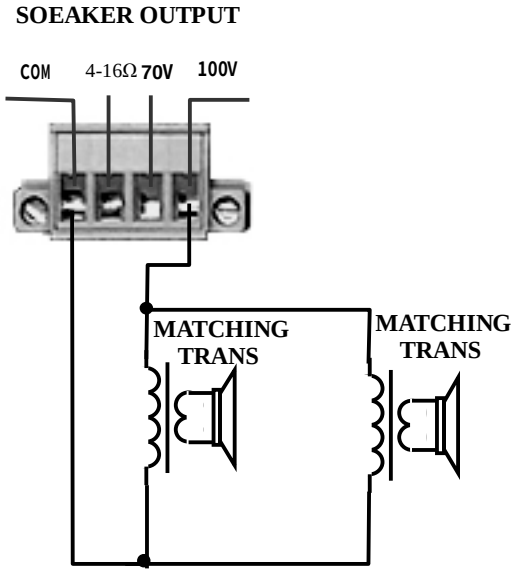
Wiring diagram of 4 -16Ω fixed-resistance output



Wiring diagram of 70V fixed-voltage output



Wiring diagram of 100V fixed-voltage output



Note: The connections of 4 output terminals are: COM- (4-16Ω), COM-70V, COM-100V. Only one pair of output terminals shall be connected, and the wires for connection of COM-70V and COM-100V shall not be connected to the speaker connecting terminal COM-(4-16Ω); otherwise, the speaker may be burnt.

Operating Instructions

Since the equipment features sound source memory after shut-down, it keep the sound source state before the last shut-down. “POWER” switch can only be used after the master power switch “AC POWER” on the rear panel is On. Master power switch “AC POWER” shall not be frequently switched. In case the power is switched off, wait for half a minute before switching on again.

Scroll display “WELCOM” is on the screen after start-up. After 10 seconds, the equipment accesses to the sound source state set before the last shut-down.

Adjust the master volume control knob “VOLUME” (11) as well as the treble and bass tone knobs “BASS”, “TREBLE” (9 & 10) on the front panel to obtain suitable public address sound; use the knob “MUSIC” (14) on the panel to adjust the volume of DVD or tuner.

DVD Mode

The DVD mode supports music files in formats of DVD, Super VCD, VCD, MP3, MP4, CD, etc, and the machine in this mode has the function of video output.

1. Characteristics of DVD Mode

- **Ø Ultra strong compatibility with discs in formats of DVD, super VCD, VCD, CD, MP3, MP4, MP3+JPEG, PICTURE-CD, CD-R, etc.**
- **Ø Digital image adjusting technology for adjusting the acutance, brightness, contrast, chroma and saturation of the image.**
- **Ø Having functions of multi-step forwarding, multi-step rewind, advanced slow play, slow reverse, step, replay and programming play.**
- **Ø Selection among multiple languages and captions, with functions of angular selection, picture enlarging, etc.**
- **Ø Full compatibility with PAL/NTSC system.**

2. Select DVD Mode

Please press the ‘**DVD**’ key in program selection keypads of this machine to convert the working mode of the device into the **DVD** mode. At this time, the startup picture appears on the screen. This indicates that the user can perform the next operation.

The operation in DVD mode can be performed through functional keypads on the panel of this machine and also the remote controller. By contrast, the remote controller can make the operation more convenient and flexible.

Therefore, we mainly take operations by remote controller as example for basic operation methods of the DVD mode we introduce to the user.

Caution: when various functional operations are performed in DVD mode, a prompt of “” on the screen indicates that the operations the user performs currently fail or are denied by the machine.

When this machine plays MP3 programs, this device will illuminate a blue round point ‘●’to indicate a carry if the number of chapters exceeds 99.

3. Play Discs

Applicable to DVD/Super VCD/VCD/CD/MP3/ MP4 Disc

Press the ⏏ key at the right of the disc cabin, and then the fluorescent screen (screen) displays a word “OPEN” and the machine pops up the disc tray. Press the ⏏ key once again after you load a disc. The fluorescent screen (or screen) displays “CLOSE” and the machine retracts the disc tray; or press the “OPEN/CLOSE” keypad on the remote controller and the disc tray automatically pops up. When you put the disc in the disc tray, please put it in with keeping the tag surface upwards. Then press the “OPEN/CLOSE” keypad on the remote controller, the tray automatically retracts and the machine begins to read the disc and automatically recognize the format of the disc to display it on the screen.

Caution

1. **When the machine plays some discs, you need to press the PLAY key on the remote controller and then the machine can begin to play them.**
2. **Please do not push or pull the disc cabin with force by your hands to avoid the DVD mechanism from being damaged.**

4. PAUSE:

- In normal playing state, press the ⏯ key or ⏸ key on the remote controller and the machine pauses playing.
- Then press the ▶ key and the machine is restored to the normal playing state.

5. STOP:

- When the machine works in normal playing state, press the ■ key and the machine escapes to the startup picture to enter the STOP-bound state. At this time, this machine automatically memorizes the point when the machine stops playing. The screen displays characters "**Stop-bound**". In state of Stop-bound, press the PLAY key and this machine will continue to play the disc from the original stop point. Then, the screen displays characters "Restore Play".
- When the machine works in normal playing state, press the ■ key without break for two times and the machine escapes to the startup picture to enter the STOP state. At this time, press the ▶ key and the machine will play the disc from the beginning.

6. Volume Control:

Mute Playing

When a program is normally played, press the "**MUTE**" key on the remote controller and the screen displays "MUTE". Press the "**MUTE**" key once again and the audio output of the machine is restored.

Volume Control

Pressing the "**VOL+**" and "**VOL-**" keypads can adjust the output volume of this machine.

7. Menu Playing

Applicable to DVD/Super VCD/VCD

- When the machine plays discs in formats of super VCD and VCD2.0, pressing the "PBC" keypad can enable or disable the function of menu playing. In the state of enabling the function of menu playing, pressing the "**RETURN**" key in playing process can return to the program option menu of the disc.
- When DVD discs are played, pressing the "**MENU**" key can enter the program option menu for disc.

  Using ◀▶▼▲ in the option menu can select different chapters. You can press the "**ENTER**" key or ▶ key to start playing, and also can directly choose to play corresponding chapters using numeral keys.

8. Time-Selecting Playing

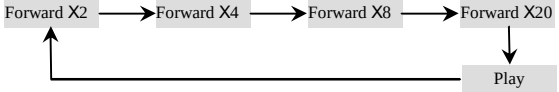
- For DVD discs, press the "**TIME**" key and the screen displays: Title 01/04 Chapter 001/026 Time 00:45. In the display of this screen, you can use the ◀, ▶ keys to move the cursor and then use numeral keys to change the numbers of the title, chapter or time of the section you want to play, and then press the "**ENTER**" key.
- For VCD discs, press the "**TIME**" key and the screen displays: chapter 02/11 PBC TIME 00: 00: 45. In the display of this screen, you can use the ▶, ◀ keys to move the cursor and then use numeral keys to change the numbers of the title or time of the section you want to play, and then press the "**ENTER**" key.
- For CD/MP3 discs, press the "**TIME**" key and the screen displays: chapter 02/11 PBC TIME 00: 00: 45. In the display of this screen, you can use the ▶, ◀ keys to move the cursor and then use numeral keys to change the numbers of the title or time of the section you want to play, and then press the "**ENTER**" .

9. Skip Playing:

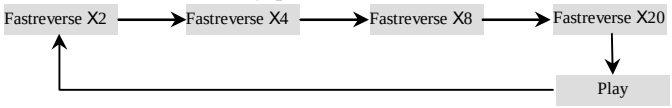
- In the playing process, press the ⏭ key to select the next chapter or chapter and the screen displays "**NEXT** ⏭".
- In the playing process, press the ⏮ key to select the next chapter or chapter and the screen displays "**NEXT** ⏮".

10. Rapid Playing:

- Press the forward key ▶▶ and the machine plays the disc at a higher speed forward. Continuously press the ▶▶ key and this machine search forward at the following several different speeds:



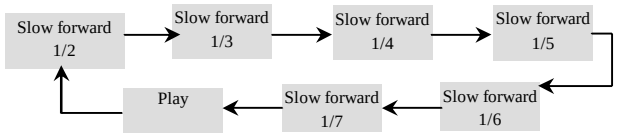
Ø Press the REW◀◀ key and the machine continuously plays the disc backward. Continuously press:



Caution: No sound is output in the state of Rapid Playing. If you want to restore the machine to the normal playing state, then press the ▶ key.

11. Slow Playing

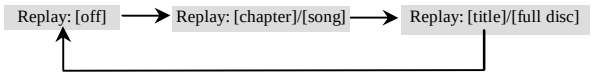
In the playing process, press the "**SLOW**" key and the machine will enter the state of SLOW PLAYING. Press the "**SLOW**" key without break and the machine plays discs at a slow speed in the following several different modes.



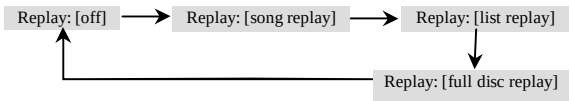
Caution: No audio is output in the state of SLOW PLAYING. If you want to restore the machine to the normal playing state, press the ▶ key.

12. Replay

Ø When the machine plays discs in formats of DVD/super VCD/VCD/CD, pressing the "**REPEAT**" key can select different repeated playing modes, including chapter or song replay and title or full disc replay.



Ø When the machine plays discs in the format of MP3, the Replay mode includes four states, namely, single song replay, list replay and full disc replay.



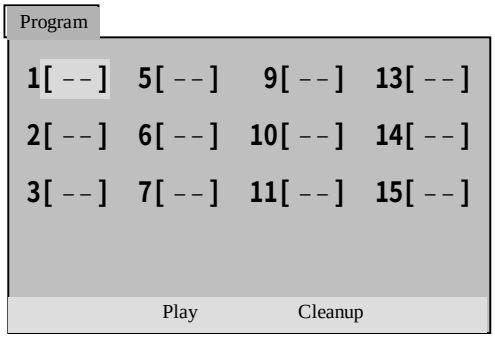
Caution: Discs in formats of super VCD and VCD2.0 cannot be replayed in the state of menu playing.

13. Programming Playing:

Warning: The programming playing cannot be applied to discs in the format of MP3.

This function is applicable to disks in formats of super VCD/VCD/CD.

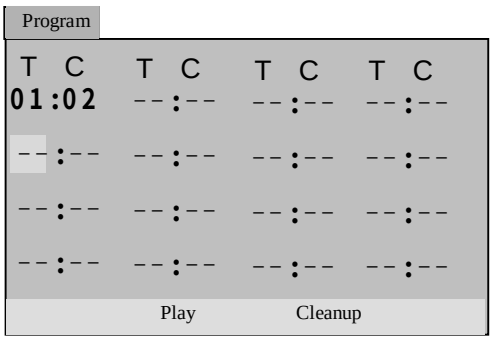
Ø In the state of PLAY or STOP, press the "**PROG**" key to enter the programming editing menu shown by the following figure. The user can arrange the order in which chapters are played according to his or her favorites.



Ø Press ◀▶▼▲ four arrow keys to move among the programming serial numbers and directly press the numeric key to set up the play list. After editing the play sequence, select the "**Play**" option of the screen and press the "**ENTER**" key to confirm. the screen will display "**Programming Play**" typeface. If you need to cancel the programming, select the "**Clean Up**" option and press the "**ENTER**" key to exit from the programming menu.

For DVD with Multiple Titles and Sections

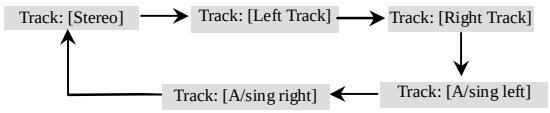
In play or halt state, press the "**PROG**" key to enter the program-editing menu. users can edit the title and play sequence of the section according to their preference. Input the numeric characters representing the title in the "T" corresponding place and output the numeric characters representing the section in the "C" corresponding place. It'd better to place the cursor to select the "Play" option and then to press the "**ENTER**" key. It is shown as follows:



14. Track Selection

Applicable to VCD/CD disk

For VCD disk, Pressing the "**R/L**" key will result in the following change:



15. Angle Selection:

Applicable to the DVD disk

When playing DVD disk, press "**ANGLE**" key to select scenes with different shooting angle. Angle switching as follows:

Notes: This function is only applicable to the DVD disk which has shot from only few different angle. The angle switching number depends on the disk production and its effect subjects to the actual effect.

16. Subtitle Selection:

Applicable to DVD/Super VCD Disk

Press the "**SUBTITLE**" key to select the subtitle class the users need. Every time you press the selection key, it is switching one title, the screen will display the selected subtitle language code.

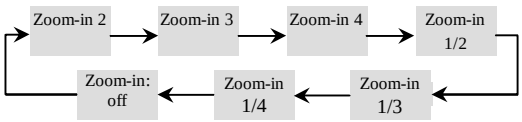
17. Language Selection

Applicable to DVD/Super VCD Disk

Press "LANGUAGE" key to select the language users need. Every time you press the selection key, it is switching one kind of language, the screen will display the language code.

18. Picture Zoom-In

When playing the disk, press the "ZOOM" key, the playing picture will zoom in. Press the "ZOOM" key continuously to select picture of different size, the screen will change as follows:



Use◄►▼▲ arrow keys to move the zoom-in picture up, down, left and right so as to enjoy different parts of the picture.

19. Screen Display

- For DVD disk, press the "**OSD**" key during playing for the first time, the screen will display the title, section information and playing time of the disk. Press the "**OSD**" key for the second time, the screen will display language, subtitle and angle. Press the "**OSD**" key for the third time, the screen display will close.
- For super VCD disk, press the "**OSD**" key for the first time during playing, the screen will display the list, playing status and time information. Press the "**OSD**" key again, the screen will display the language and subtitle information of the disk.
- For VCD disk, press the "**OSD**" key during playing, the screen will display the list, playing status and time information. Press the "**OSD**" key again, the screen display will close.
- For CD/MP3 disk, press the "**OSD**" key for the first time during playing, the screen will display the list and time information. Press the "**OSD**" key again, the screen display will close.

20. MP3 Playing

The screen will appear an operation menu during MP3 disk playing, it is shown as follows (of which the displaying contents depends on the disk):

① Catalog Window: Displaying current path.

② File Window: Displaying files of the current path.

③ Scroll Bar Window: Indicating the place where the current files of file window are.

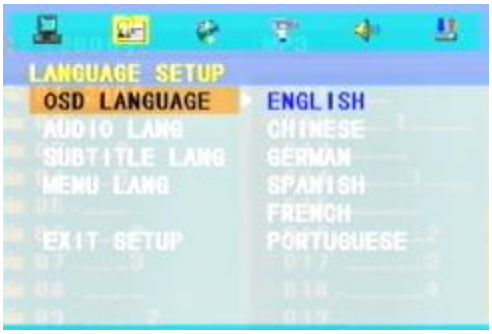
④ MP3 Play Icon

⑤ Play Icon of JEPG Picture.

The up and down arrow key and "ENTER" key can be used to select the catalog during playing the MP3 disk. The play list of catalog can be selected with the same way to be played.

21. System Setup:

Press the "SETUP" key to enter the "System Setup" setting interface, which is shown in following figure. Users can set up the television system, screen protection, video output, screen picture scale, etc.



- Ø Television System: Select the "Television System" option and press the ▶ key to enter the lower menu. According to different requirements, press the ▼▲ key to select different television systems. The systems for selections are: NTSC, PAL 60, PAL and Automatic 4 types.
- Ø Screen Protection: Select the "Screen Protection" option, press the ▶ key to enter the lower menu. The screen protection can be set as "on" and "off", if select the "on" when the machine is in halt or still-picture state, it will later enter the screen protection state.
- Ø Video Output: Select the "Video Output" option and press the ▶ key to enter the lower menu. Press the ▼▲ key to select different video output forms according to various requirements, the form for selection are: Video Component, TV-RGB, P-SCAN YPBPR, PC-VGA, S-VIDEO 5 types.
- Ø Screen Picture Scale: Select the "Screen Picture Scale" option and press the ▶ key to enter the lower menu. Press the ▼▲ key to select different screen picture scale according to various requirements, the forms for selections are: 3PS, 4: 3LB and16: 9 three types.

22. Language Setup:

Press the "SETUP" key and ▶ key to enter the "Language Setup" setting interface, which is shown as follows. Users can set up the options of picture display language, audio language, subtitle language, menu language:

- Ø Picture Display Language: Select "Picture Display Language" option and press ▶ key to enter its submenu, types of language for selection are: English, Chinese, German, Spanish, French and Portugal 6 languages.
- Ø Audio language: Select the "Audio Language" option and press the ▶ key to enter its
- Ø Subtitle language: Select the "Subtitle Language" option, Press the ▶ key to enter its submenu, the setting values for selection are: Chinese, English, Japanese, French, Spanish, Portugal, German and Latin.
- Ø Menu language: Select the "Menu Language" option, Press the ▶ key to enter its submenu. The setting values for selection are: Chinese, English, Japanese, French, Spanish, Portugal, German and Latin.

Notes: setup of the picture displaying language, audio language, subtitle language, menu language needs disk support.

23. Video Setup

Press the "SETUP" key and ▶ key to enter the "Language Setup" setting interface, which is shown in the following figure: Users can set up the brightness, contrast, color tone, saturation option of the picture.

Brightness, Contrast, Color tone, Saturation

Select any one of the "Brightness", "Contrast", "Color Tone", "Saturation" options and press the ▶ key to enter its submenu. Press the ▲ key and ▼ key to regulate the setting values.

Radio and other broad cost mode

1. **Zone Control**

2 100V fixed-voltage output interfaces are provided for the equipment to connect 2 zones.

After secure connection of wires, Zone On/Off keys (34 & 35) of two zones on the front panel can be used for switching On/Off the zones. When one of the keys is pressed down, the corresponding zone is on, and the corresponding indicator (32 or 33) is on; when the key is released, the corresponding zone is off, and the corresponding indicator is off.

2. **Radio**

Press "TUNER" key to access to radio mode, and the equipment will select built-in tuner as the sound source. If the sound source was selected at the last shut-down, the equipment will access to radio state at the current start-up, and the corresponding indicator is on. "TUNER" will be displayed for 1 second on the screen, and the equipment will return to the received band, preset memory frequency or non-preset memory frequency at the last use of radio sound source. At this moment, the following operations can be performed to the radio sound source:

- Band selection: Press BAND key to switch between FM and AM bands.
- Auto station search: Press and hold the DOWN or UP key for over 1 second, and the equipment will automatically search for stations towards high frequency or low frequency, and the frequency displayed on the screen will continuously flash. When a station is found, the frequency on the screen stops flashing, and the current frequency found will be displayed on the screen. When the found signal is stereo signal and is strong enough, "STEREO" sign will be lit on the screen; otherwise, the sign won't be lit or flash.
- Manual station search: Slightly press the DOWN or UP key (held for not more than 1 second), and the equipment will step once (50kHz per step for FM, and 9kHz per step for AM) towards high frequency or low frequency, and the corresponding frequency will be displayed on the screen. Manual station search is suitable for searching a station of which signal is weak.
- Station Storage: After a station is found, the station can be stored to the preset station storage No. by followings: Press MEMO key, and "MEM" sign and a preset storage No. "CHXX" will flash on the right top corner of the screen. Press M-DOWN or M-UP key to select one of the storage Nos. from CH10 to CH20, and then press the MEMO key again to store the station found to the storage No.. After that, press M-DOWN or M-UP key to call the station of the storage No.

3. **External Sound Source**

When an external sound source is necessary, please use the AUX interface. Press "AUX" key, and the corresponding indicator will be lit and the AUX channel will be on. Sound sources like CD player, DVD player, tuner and cassette can be connected to the AUX input terminal.

4. **Operating Instructions for Microphone**

Since a phantom power supply is provided for the equipment, microphones of different types can be used: both dynamic and condenser microphones can be used. When the phantom power supply is switched to "PHANTOM" position, a condenser microphone is available; when the phantom power supply is switched to "MIC" position, a dynamic microphone is available.

To avoid strong feedback, please adjust the microphone volume down through the microphone volume knob on the front panel before plugging the microphone. Since all microphones adopt XLR interface, please check the direction when connecting. The gain of the microphone can be adjusted through "GAIN" knob for the best voice

effect.

"PRIORITY" terminal on the rear panel for microphone features Mute function when a short-circuit signal is inputted. (Except chime signal), other signals can be suppressed by the signal from the four microphones. When "PRIORITY" terminal is shorted, both chime and microphone feature Mute function of the same priority. If the volume of chime is minimized, microphone signal can be outputted individually. The Mute function can be canceled by canceling the short-circuit signal.

5. **Built-in Chime Generator**

Chime signal of the equipment can be outputted by short-circuit toggle through "PRIORITY" terminal on the rear panel. Short-circuit once, and the chime signal will be outputted once. If another chime signal is desired, cancel the current short-circuit and short the "PRIORITY" terminal again. The output volume of chime can be adjusted by "CHIME VOL" knob. Since chime features overriding function, it is suitable for forced insertion.

Packing List

MP78 series product	1 set
Power cord	1 pcs.
AM antenna	1 pcs.
FM antenna	1 pcs.
Audio line	1 pcs.
User's Manual	1 copy
Warranty Card	1 copy
4-position terminal	2 pcs.
2-position terminal	1 pcs.

Specifications

DVD/MP3/CD Section Specifications

Frequency response	20Hz-20kHz (±3dB)
Signal to Noise Ratio	98dB
Dynamic range	90dB
THD	0.005%
Wow & Flutter	Under the limited level

TUNER Section

AM	
Sensitivity	50dB μ
Wave Band	522kHz-1620kHz
Band width	6kHz
Signal to Noise Ratio	60dB

FM	
Sensitivity	52dB μ
Wave Band	87.0MHz-108.0MHz
Band width	15kHz
Signal to Noise Ratio	65dB

Amplifier

Model	MP7806	MP7812	MP7825	MP7835
Rated output	60W	120W	250W	350W
Output regulation	From full-load to no-load, less than 3dB.			
Output method	4-16Ω balanced output, 70V & 100V fixed-voltage outputs			
Zone output	Zones 1 and 2: 100V			
Auxiliary output	0dBV			
Input	MIC1, 2, 3 & 4: 600Ω, 2.5mV-500mV, balanced			
	AUX: 10kΩ, 250mV(±50mV), unbalanced			
Frequency response	MIC: 100Hz-15kHz (±3dB) AUX: 40Hz-20kHz (±3dB)			
Phantom power supply voltage	48(±2V)			
Harmonic distortion	< 0.5% (1kHz, 1/3 rated power)			
Line S/N (4Ω output)	70dB	72dB	76dB	77dB
Microphone S/N (4Ω output)	70dB	72dB	76dB	77dB
Tone adjustment	Bass: ±10dB (100Hz)			
	Treble: ±10dB (10kHz)			
Protection	AC fuse, DC output protection, and overload protection			
Mute	MIC1 input overrides other inputs (attenuated by 0 to -30dB)			
Power supply	AC220-240V/50-60Hz			
Power consumption	120W	250W	500W	650W
Outer Packing Size (mm)	(L×W×H)520×500×235			
Unit Size (mm)	(L×W×H)430×400×132			
Gross weight	15.5kg	17kg	19.8kg	21.6kg
Net weight	13kg	14.5kg	17.3kg	19.1kg

Specifications are subject to change without notice

DSPPA Acoustic Technology Co., Ltd.